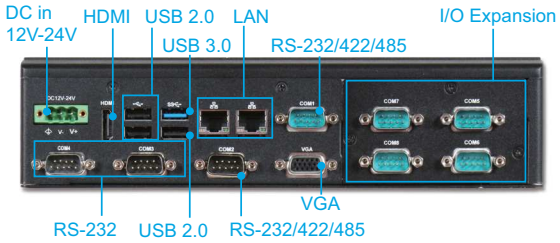
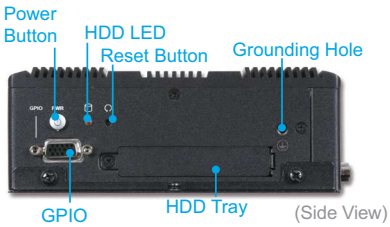
CHUMPI-5391

Embedded Rugged Fan-less System with Intel® Atom™ E3845 Specific Form Factor Board







Rugged | Fanless | COM | USB 2.0/3.0 | GbE | Wide Temperature | Mini-PCIe | DDR3L | HDMI | mSATA

The CHUMPI-5390 is powered by Intel® Atom™ quad-core processor. Despite its Fan-less and cable-less design, the system can support wide temperature ranging from -30°C ~ 70°C degrees. By utilizing the low power technology, CHUMPI-5390 is an ideal platform for factory automation and transportation applications.

FEATURES

- Intel® Atom™ embedded processor with low power and quad-core technology
- Fan-less and cable-less design with wide temperature support (-30°C ~ 70°C degrees)
- One SO-DIMM socket up to 8GB DDR3L Memory
- 1x 2.5" SATA HDD/SSD, 1x Half-size mSATA socket
- 2x Gigabit Ethernet, 1x USB 3.0, 3x USB 2.0
- 1x VGA, 1x HDMI
- 2x RS-232/422/485 (Autoflow support), 2 x RS-232
- Support wide DC 12V ~ 24V input
- 3x Antenna hole for WiFi, 3G/GPS or 4G LTE module to use
- Wall mounting
- OP Vibration: 5Grms/10~500Hz
- OP Shock: 50G, 11msec
- IP40 Rating

ORDERING GUIDE

AS5-3461	(R).ATO. Chumpi-5391 Series. Intel Bay Trail Atom E3845 Embedded System

System

M/B	PAB-1001-E3845
System Chipset	Intel® Baytrail SoC
CPU	Intel® Atom™ E3845, 2M L2 Cache, 1.91GHz, 10W TDP (4C/4T)
BIOS	AMI uFEI BIOS
System Memory	Single 204-pin SO-DIMM socket supports DDR3L 1333/1600 up to 8 GB
Storage	1x 2.5" SATA HDD/SSD, 1x Half-size mSATA
Watchdog Timer	Programmable via S/W from 1 sec. to 255 sec.
Hardware Monitoring	- Temperature (CPU & System) - Voltage (CPU Vcore, 12V, 5V, 3.3V, VDIMM)
Expansion Interface	- 1x Full-size Mini-PCIe socket (Basic) - 1x Isolation 2KV RS-232/422/485, 3x Isolation 2KV RS-232 (Option 1) - 1x Isolation 2KV RS-232/422/485, 1x Isolation 2KV RS-232, 4x USB2.0 (Option 2) - 1x Line-out, 1x MIC, 1x Full-size Mini-PCIe socket + SIM card Holder (Option 3) - 1x Line-out, 1x MIC, 2x CAN (Option 4) - 1x Line-out, 1x MIC, 2x EtherCAT (Option 5) - 1x Line-out, 1x MIC, 2x Profinet (Option 6)

External I/O

Serial Port	4x COM port (2x RS-232/422/485 selectable by BIOS)
Display	1x VGA, 1x HDMI
USB	1x USB 3.0, 3x USB 2.0
Audio	Realtek ALC892-GR HD Audio Codec
Ethernet	2x Gigabit Ethernet (Intel® I210IT)
GPIO	1x Programmable 8-bit Digital I/O
Other	3x Antenna hole for WiFi, 3G/GPS or 4G LTE module

Power Supply Unit

Power Input	DC 12V ~ 24V

Environmental

Operation Temperature	-30°C ~ 70°C
Storage Temperature	-40°C ~ 80°C
Relative Humidity	95%@40°C, non-condensing
Operation Vibration	5Grms/10-500Hz, IEC 60068-2-6
Operation Shock	50G, 11 msec, IEC 60068-2-27

Mechanical

Dimension	247(W) x 160(D) x 60(H) mm
Weight	2.4kg
Mounting	Wall mounting